

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended): A digital camera apparatus, comprising:

an image inputting device ~~for inputting~~ configured to capture an image to be photographed, the image inputting device including a shutter release button having two positions for a first release and a second release;

an image processing device ~~for carrying out a processing of~~ configured to process said image ~~inputted~~ captured by said image inputting device;

a recognizing device ~~which~~ configured to automatically recognizes ~~recognize~~ a printed code included in said processed image and output a result of the recognition of the printed code in response to the first release, and configured to determine the image captured by the image inputting device and record the determined image and the printed code recognized by the first release in response to the second release;

a displaying device ~~for displaying a~~ configured to display the result of the recognition of the printed code outputted from said recognizing device; and

a recording device ~~for recording~~ configured to record the determined image captured by the image inputting device and data of the recognition of the printed code automatically recognized by said recognizing device;

~~wherein said recognizing device automatically recognizes said printed code of said image scanned by triggering a first release by said image inputting device before determining and recording said image in a second release by said image inputting device.~~

2. (Currently Amended): A digital camera apparatus, comprising:

a guide displaying device ~~which displays~~ configured to display a most appropriate guide for recognizing a printed code;

an image inputting device ~~for inputting~~ configured to capture an image to be photographed;

an image processing device ~~which carries out a processing of~~ configured to process said image ~~inputted~~ captured by said image inputting device;

a recognizing device ~~which~~ configured to automatically recognizes ~~recognize~~ the printed code included in said processed image by matching the printed code with the guide;

a displaying device ~~for displaying~~ configured to display a result of the recognition of the printed code automatically recognized by said recognizing device; ~~and~~

a recording device ~~for recording~~ configured to record data of the recognition of the printed code automatically recognized by said recognizing device; and [[,]]

~~wherein said printed code is automatically recognized by adapting said printed code to said most appropriate guide displayed by said guide displaying device~~

a matching device configured to match the printed code with the guide.

3. (Currently Amended): A digital camera apparatus, comprising:

an image inputting device ~~for inputting~~ configured to capture an image to be photographed;

an image processing device ~~which carries out a processing of~~ configured to process said image ~~inputted~~ captured by said image inputting device;

a code setting device configured to set a kind of a printed code included in the image to be automatically recognized;

a resolution setting device configured to set a resolution of said image captured by the image inputting device;

a guide displaying device configured to display a guide for recognizing the printed code in accordance with a content on the kind of printed code to be automatically recognized set by said code setting device;

a recognizing device ~~which~~ configured to automatically recognizes a recognize the printed code included in said image according to the guide corresponding to the content set by said code setting device and to the resolution of said image set by said resolution setting device;

a displaying device ~~for displaying~~ configured to display a result of the recognition of the printed code automatically recognized by said recognizing device; and

a recording device ~~for recording~~ configured to record data of the recognition of the printed code automatically recognized by said recognizing device;

~~a code setting device for setting a kind of said printed code to be automatically recognized;~~

~~a guide displaying device which displays a most appropriate guide for recognizing the printed code in accordance with a content set by said code setting device; and~~

~~a resolution setting device for setting a resolution of said image which is scanned, wherein said printed code is automatically recognized pursuant to the displaying of the guide corresponding to the content set by said code setting device and to the resolution of said image set by said resolution setting device.~~

4. (Currently Amended): A digital camera apparatus, comprising:

an image inputting device ~~for inputting~~ configured to capture an image to be photographed;

an image processing device ~~which carries out a processing of~~ configured to process said image ~~inputted~~ captured by said image inputting device;

a code setting device configured to set a kind of said printed code to be automatically recognized;

a guide displaying device configured to display a guide for recognizing the printed code in accordance with a content on the kind of said printed code to be automatically recognized set by said code setting device;

a recognizing device ~~which~~ configured to automatically recognizes a recognize the printed code included in said image;

a displaying device ~~for displaying~~ configured to display a result of the recognition of the printed code automatically recognized by said recognizing device;

a recording device ~~for recording~~ configured to record data of the recognition of the printed code automatically recognized by said recognizing device; and

~~a code setting device for setting a kind of said printed code to be automatically recognized; and~~

~~a guide displaying device which displays a most appropriate guide for recognizing the printed code in accordance with a content set by said code setting device;~~

~~wherein a switching over of~~ a changing device configured to change photographing modes ~~[[is]]~~ automatically ~~carried out corresponding~~ according to said ~~most appropriate~~ guide displayed by said guide displaying device.

5. (Currently Amended): The digital camera apparatus according to claim 3, wherein said code setting device ~~sets~~ is configured to set start/stop codes and a kind of bars as the content of the setting thereof.

6. (Currently Amended): The digital camera apparatus according to claim 2, wherein said guide displaying device ~~shows~~ is configured to present a minimum size necessary for carrying out the recognition to ~~[[an]]~~ a user as ~~[[a]]~~ the guide display.

7. (Currently Amended): The digital camera apparatus according to claim 6, wherein a transverse width of the minimum size of said guide ~~display~~ is decided determined from a minimum line width of a bar code.

8. (Currently Amended): A digital camera apparatus, comprising:  
an image inputting device ~~for inputting~~ configured to capture an image to be photographed;  
an image processing device ~~which carries out a processing of~~ configured to process said image ~~inputted~~ captured by said image inputting device;  
a recognizing device ~~which~~ configured to automatically ~~recognizes~~ recognize a printed code included in said image;  
a displaying device ~~for displaying~~ configured to display a result of the recognition of the printed code automatically recognized by said recognizing device;  
a recording device ~~for recording~~ configured to record data of the recognition of the printed code automatically recognized by said recognizing device; ~~and~~  
an information searching device ~~which defines~~ configured to define an information file ~~where~~ in which information corresponding to said printed code is included therein to at least one of an external memory recording medium attached to the digital camera apparatus and an internal memory beforehand, and ~~searches~~ configured to search said ~~corresponding~~ information corresponding to said printed code when after said printed code is recognized; and ~~[[.]]~~

~~wherein an adding of information is carried out by converting~~ an information adding device configured to convert said printed code to information corresponding to said printed code and add the information to the image.

9. (Original): The digital camera apparatus according to claim 1, wherein a result of the recognition of said printed code makes it possible to be notified by a playback of voice.

10. (Currently Amended): The digital camera apparatus according to claim 1, wherein the printed code includes a bar code for identification in commercial use ~~is included in said printed code.~~

11. (New): A digital camera apparatus, comprising:  
an image inputting device configured to capture an image, the image inputting device including a shutter release button having two positions for a first release and a second release;  
an image processing device configured to process the image captured by the image inputting device, and configured to output the image;  
a controller configured to automatically recognize a printed code included in the processed image and output a result of the recognition of the printed code in response to the first release, and configured to determine the image captured by the image inputting device and record the determined image and the printed code recognized by the first release in response to the second release;  
a displaying device configured to display the image outputted from the image processing device, and configured to display the result of the recognition of the printed code outputted from the controller; and

a recording device configured to record the determined image captured by the image inputting device and data of the recognition of the printed code automatically recognized by the controller.

12. (New): The digital camera apparatus according to claim 11, wherein the controller is configured to display a guide for recognizing the printed code on the displaying device, and configured to automatically recognize the printed code matched with the guide displayed on the displaying device.

13. (New): The digital camera apparatus according to claim 12, further comprising:  
an interface configured to set a kind of the printed code to be automatically recognized,

wherein the controller is configured to display the guide according to the kind of the printed code set by the interface.

14. (New): The digital camera apparatus according to claim 13, wherein the controller is configured to automatically recognize the printed code with a resolution determined according the kind of the printed code set by the interface.

15. (New): The digital camera apparatus according to claim 13, wherein the interface is configured to set a resolution of the image to be captured by the image inputting device,  
wherein the controller is configured to automatically recognize the printed code with the resolution set by the interface.

16. (New): The digital camera apparatus according to claim 15, wherein the controller is configured to increase or decrease the resolution according to a result of the recognition of the printed code.

17. (New): The digital camera apparatus according to claim 13, wherein the controller is configured to automatically change photographing modes according to the kind of the printed code set by the interface.

18. (New): The digital camera apparatus according to claim 17, wherein the interface is configured to set start/stop codes and a kind of bars as a content of setting thereof.

19. (New): The digital camera apparatus according to claim 12, wherein the controller is configured to display a minimum size necessary for recognizing the printed code on the guide displaying device as the guide.

20. (New): The digital camera apparatus according to claim 19, wherein a transverse width of the minimum size of said guide is determined from a minimum line width of a bar code.

21. (New): The digital camera apparatus according to claim 11, wherein the controller is configured to previously define an information file in which information corresponding to the printed code is included therein to at least one of an external recording medium attached to the digital camera apparatus and an internal memory, configured to search the information corresponding to the printed code when the printed code is recognized,



and configured to add the searched information to a file including therein the captured image and to record the file into the recording device.

22. (New): The digital camera apparatus according to claim 11, wherein the controller is configured to output the result of the recognition of the printed code by a playback of voice.

23. (New): The digital camera apparatus according to claim 11, wherein the printed code includes a bar code for identification in commercial use.

24. (New): The digital camera apparatus according to claim 11, wherein the digital camera apparatus includes any one of a personal digital assistant, a personal computer, and a phone, each having a digital camera function.